16843

2 1823

WESTON
MANAGERS DESIGNERS/CONSULTANTS
10121 PRODUCTION COURT
LOUISVILLE, KY 40299-2117
502-491-0872 * FAX 502-499-9019

FACSIMILE TRANSMITTAL
FAX: 502-499-9019

TO: Fred Straud
FROM: Kelly Sims
DATE: 3/23/95 TIME: 1530

Recipient's Telecopy Telephone # 404/347-4464
Recipient's Confirmation Telephone # 404/347-3931

Total Pages 8 (incl. cover sheet)

ORIGINAL WILL:
____ Follow via mail
____ Follow via messenger
____ Follow via overnight service
X Not be sent

COMMENTS:

I hope you can read this!

Kelly

Location of water wells for potentiometric surface measurement in the vicinity of the Sand Site, Nashville, Tennessee

On the morning of August 10, 1994, Chris Groves met with Mr. David Grief of the water well permitting division of the Tennessee Department of Environment and Conservation (TDEC) to obtain locations and descriptions of water wells in the vicinity of the Sand Site in order to more accurately determination the configuration of the potentiometric surface in the area. The state turned out to have information on 23 water wells that were deemed to be within the area of interest, plus 7 E.P.A. monitoring wells on the former Croft Farm, where we already had good control on water table elevation. No stormwater drainage wells are known to be present in the area. A full day was expended in the search for these wells.

Of the 23 wells, 12 could not be found because of insufficient information on location. Each of the remaining walls was investigated. Unfortunately, of these, water levels could only be determined for three wells for a number of reasons, including welded caps that prevented measurement (one well), wells that had been abandoned and ultimately covered due to insufficient yield (five wells), and two wells where landowner permission could not be obtained.

After this effort, a search was made in the neighborhoods in the area near Nolensville Road to find older homes that might have at one time had water supply wells. Residents at about a dozen homes, including a number of residents who had been in the area for over thirty years, were asked, and none knew of any wells that were still present. This suggests that the TDEC list is comprehensive, and that few if any other wells are present in this urban area.

The attached sheets describe the three wells that were measured.

Persons Completing Field Inventory Form: _____

2 - 1330

Feature: Water Well ✓ Monitoring Well _____ Drainage Well _____
Spring _____ Karst Window _____ Cave Stream _____
Surface Stream _____ Lake or Pond _____

Inventory Number: W3 Location - Latitude and Longitude: _____

State Well Identification Number: _____

Name of Feature: _____ Location Description: In rear of 390
Landowner: Kathern Pelfrayman Wheeler Ave.
(address) _____
_____

Surface Elevation of Ground at Top of Well: _____
a) Estimated from contour map _____ Contour Interval _____
b) Leveled from Bench Mark _____
Type and Location of Bench Mark _____

Top of Casing Elevation: _____
Depth to Water: 8.4
Elevation of Water Surface: _____

Total Depth of Well: 35.2
a) Measured ✓
b) Supplied by Owner _____

Diameter of Well: _____
Screened Interval: _____
Type of Casing: _____
Length of Casing: _____
Top of Bedrock Elevation: _____

2 . 1991

Type of Pump: Submersible _____ Jet _____ Other _____ none

Water Well Use:
a) Not Used ✓ b) Residential _____ c) Livestock _____
d) Irrigation _____ e) Other _____

Does Water Become Cloudy or Muddy After Heavy Rains? Yes _____ No _____ ? _____

Yield of Well? _____ ? _____

Does it Go Dry? Yes _____ No _____ ? _____

Odor?
a) None ✓ b) Hydrogen Sulfide _____
c) Hydrocarbon _____ d) Other _____

LNAPL Observed Floating on Surface? Yes _____ No _____ ? _____

Temperature: _____
Specific Conductance: _____
pH: _____

Grab Sample Collected? Yes _____ No _____

Dye Receptor Placed in Well? Yes _____ No _____

Suspected Reasons Why the Water Elevation in the Well May Not Represent the Water Table:
a) Pump has been running recently _____
b) Perched Aquifer _____
c) Confined Aquifer _____

Comments: _____

POTENTIOMETRIC SURFACE FORM
Crawford and Associates, Inc.

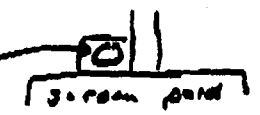
Project Name: Saad Date: 8/10/94 Time: 11:22 AM

Persons Completing Potentiometric Surface Form: Chris Groves

Feature: Water Well ✓ Monitoring Well ____ Drainage Well ____
Spring ____ Karst Window ____ Cave Stream ____
Surface Stream ____ Lake or Pond ____

Inventory Number: IW Location - Latitude and Longitude: ____

State Well Identification Number: 03709109



Name of Feature: ____ Location Description: Behind house in concrete
Landowner: June Vaughn pad beneath of barrel planter.
(address) ____

Surface Elevation of Ground at Top of Well: ____
a) Estimated from contour map ____ Contour Interval ____
b) Leveled from Bench Mark ____
Type and Location of Bench Mark ____

Top of Casing Elevation: ____
Depth to Water: 19'
Elevation of Water Surface: ____

Total Depth of Well: 44'
a) Measured ✓
b) Supplied by Owner ____

Diameter of Well: ____
Screened Interval: ____
Type of Casing: Steel
Length of Casing: ____
Top of Bedrock Elevation: ____

2 . 1333

Type of Pump: Submersible _____ Jet _____ Other _____ none

Water Well Use:
a) Not Used ✓ b) Residential _____ c) Livestock _____
d) Irrigation _____ e) Other _____

Does Water Become Cloudy or Muddy After Heavy Rains? Yes _____ No _____ ? _____

[illegible] _____ _____

Does It Go Dry? Yes _____ No _____ ? _____

Odor?
a) None ✓ b) Hydrogen Sulfide _____
c) Hydrocarbon _____ d) Other _____

LNAPL Observed Floating on Surface? Yes _____ No _____ ? _____

Temperature: _____
Specific Conductance: _____
pH: _____

Grab Sample Collected? Yes _____ No ✓

Dye Receptor Placed in Well? Yes _____ No ✓

Suspected Reasons Why the Water Elevation in the Well May Not Represent the Water Table: none
b) Perched Aquifer _____
c) Confined Aquifer _____

Comments: _____

2 . 1334

POTENTIOMETRIC SURFACE FORM

Crawford and Associates, Inc.

Project Name: Saad Date: 8/10/94 Time: _____

Persons Completing Potentiometric Surface Form: C. Groves

Feature: Water Well ✓ Monitoring Well _____ Drainage Well _____
Spring _____ Karst Window _____ Cave Stream _____
Surface Stream _____ Lake or Pond _____

Inventory Number: W2 Location - Latitude and Longitude: _____

State Well Identification Number: TN005416

Name of Feature: _____ Location Description: in front yard of
Landowner: _____ 522 Paragon Mills Rd.
(address) _____ under rectangular aluminum cover
_____ 5' x 6' level with ground, next
to a 5.5 bush.

Surface Elevation of Ground at Top of Well: _____
a) Estimated from contour map _____ Contour Interval _____
b) Leveled from Bench Mark _____
Type and Location of Bench Mark _____

Top of Casing Elevation:	_____
Depth to Water:	10.6'
Elevation of Water Surface:	_____
Total Depth of Well:	44.6'
a) Measured ✓	
b) Supplied by Owner _____	
Diameter of Well:	5"
Screened Interval:	_____
Type of Casing:	Steel.
Length of Casing:	_____
Top of Bedrock Elevation:	_____

Type of Pump: Submersible _____ Jet _____ Other _____

Water Well Use:
a) Not Used ✓ b) Residential _____ c) Livestock _____
d) Irrigation _____ e) Other _____

Does Water Become Cloudy or Muddy After Heavy Rains? Yes _____ No _____ ? _____

Yield of Well? _____ ? _____

Does it Go Dry? Yes _____ No _____ ? _____

Odor?
a) None ✓ b) Hydrogen Sulfide _____
c) Hydrocarbon _____ d) Other _____

LNAPL Observed Floating on Surface? Yes _____ No _____ ? _____

Temperature: _____
Specific Conductance: _____
pH: _____

Grab Sample Collected? Yes _____ No ✓

Dye Receptor Placed in Well? Yes _____ No ✓

Suspected Reasons Why the Water Elevation in the Well May Not Represent the Water Table: none
a) Pump has been running recently __
b) Perched Aquifer _____
c) Confined Aquifer _____

Comments: _____
_____
_____
_____